



# **Color Theory**

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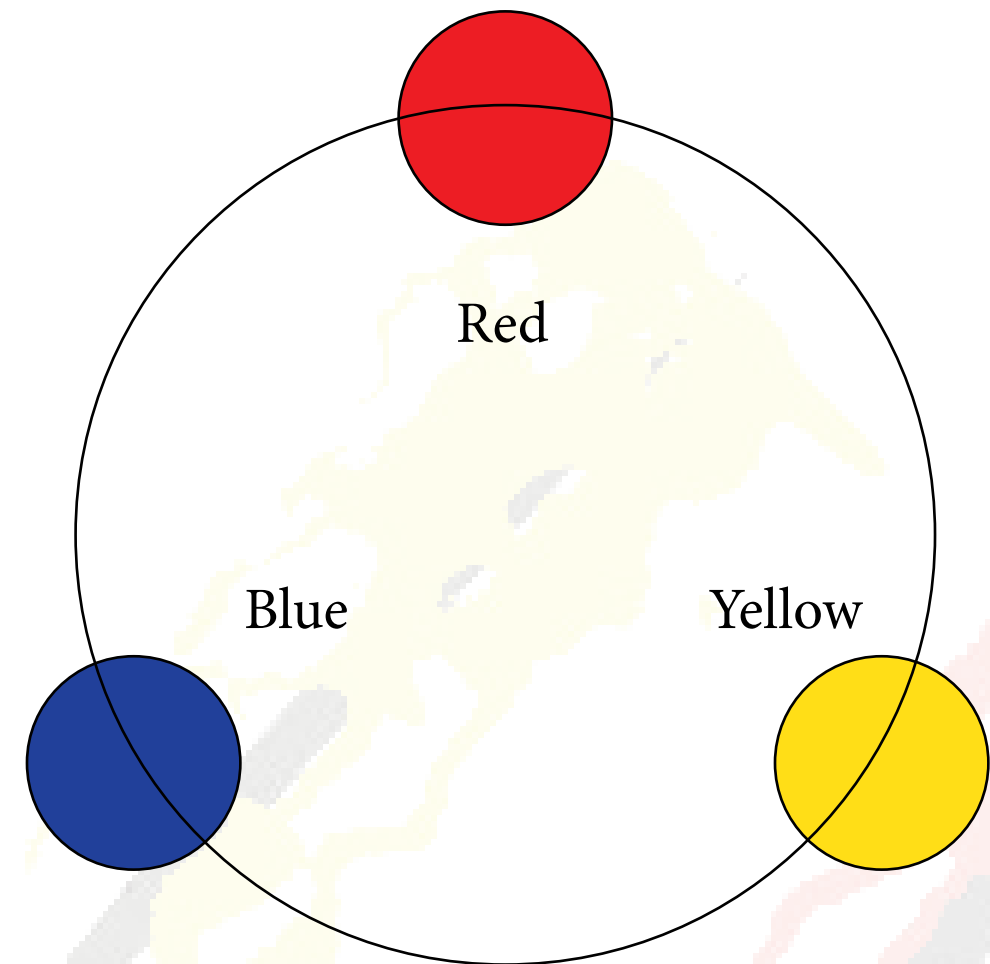
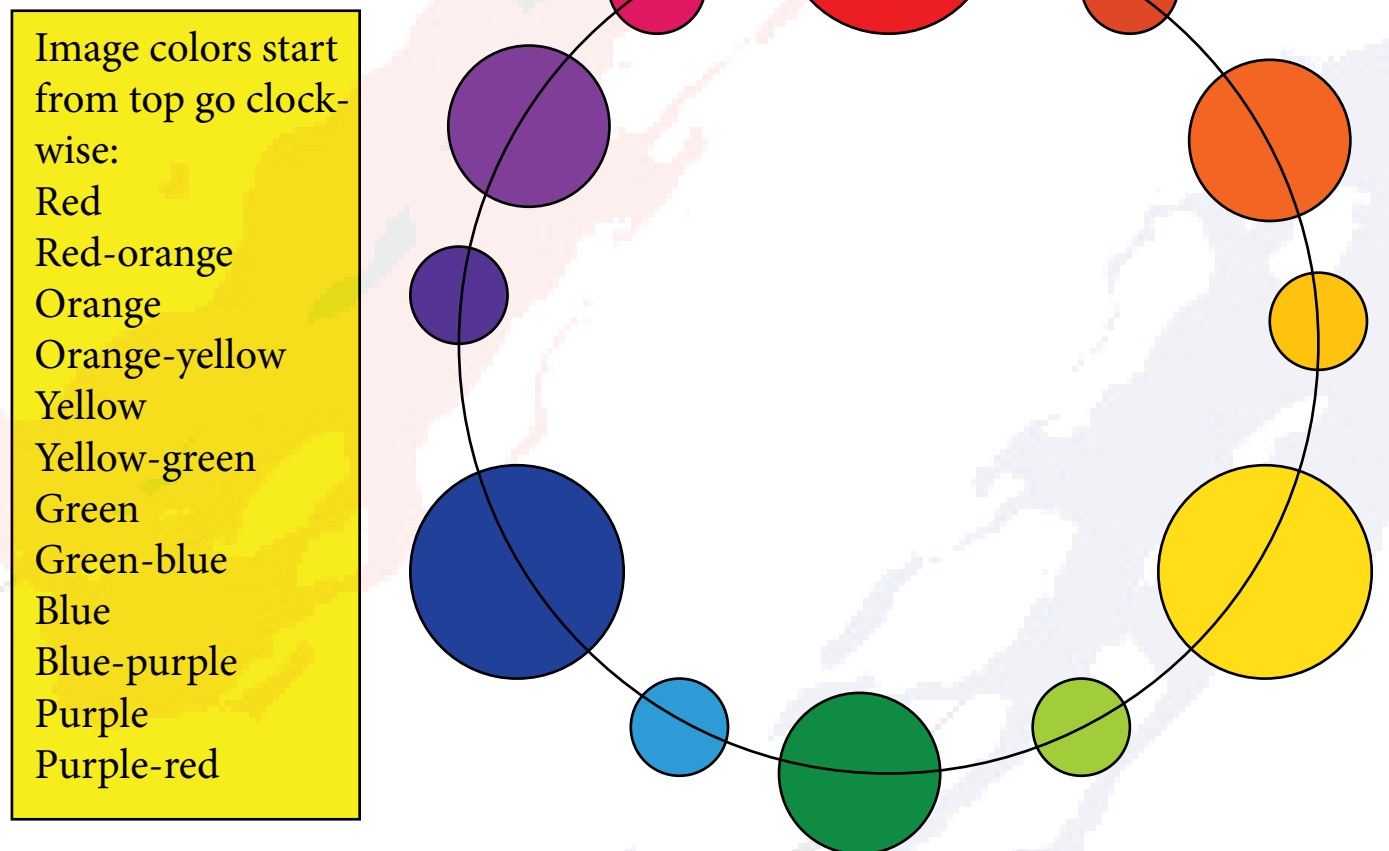
# Color Theory

Color theory is a fundamental aspect of visual art and design, delving into the intricate world of colors and their perceptual impact. It encompasses the study of the color wheel, color harmony, and the psychology behind different hues, exploring how colors can evoke emotions and influence human behavior.

This multifaceted discipline guides artists, designers, and marketers in making informed choices about color selection, helping convey messages, establish brand identities, and create aesthetically pleasing compositions.

# The Color Wheel

The color wheel is a visual tool used to organize and understand colors. It arranges hues in a circular format, showcasing their relationships. It includes primary colors (red, blue, yellow), secondary colors (green, orange, purple), and tertiary colors (red-orange, yellow-green, etc.), aiding in color selection, harmony, and design.

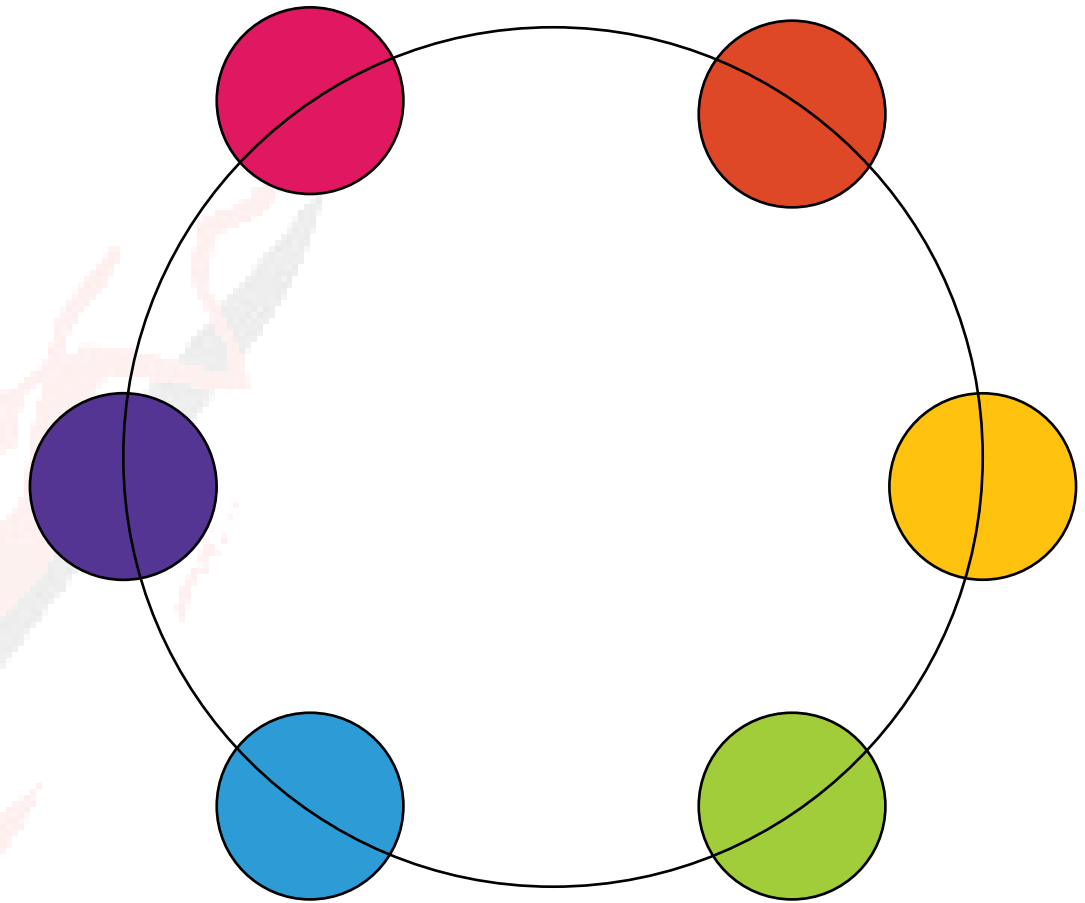
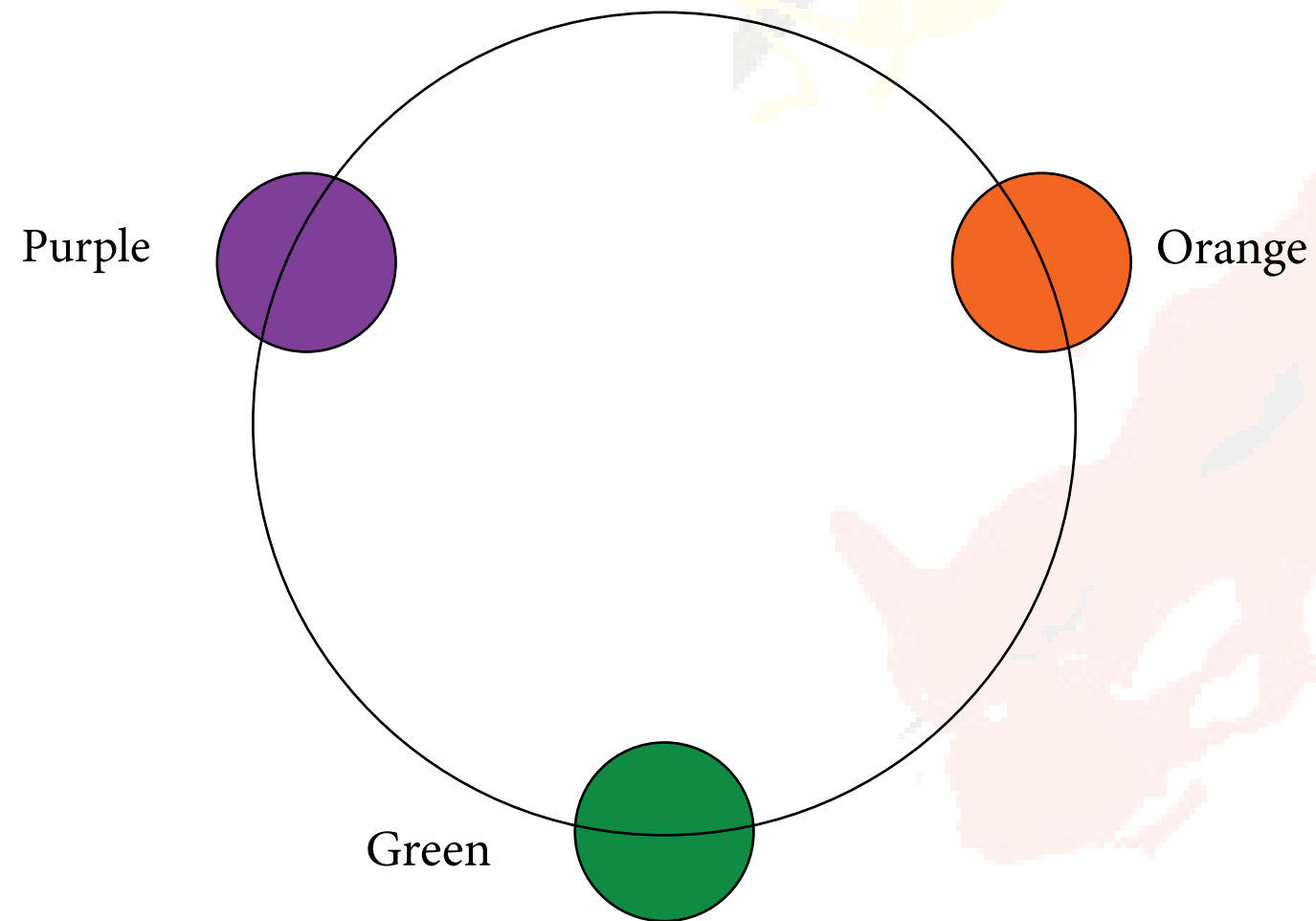


## Primary Colors

Primary colors, red, blue, and yellow, are the cornerstone of color theory. These hues cannot be derived by mixing other colors and form the basis for creating a vast spectrum of secondary and tertiary colors. They are essential in art, design, and various color-related applications.

## Secondary Colors

Secondary colors, including **green, orange, and purple**, result from mixing two primary colors. Green combines blue and yellow, orange results from red and yellow, and purple forms through red and blue. These hues are crucial for expanding color choices in art, design, and color theory applications.



## tertiary Colors

Tertiary colors are created by mixing a primary color with an adjacent secondary color on the color wheel. These six hues, like red-orange or yellow-green, offer a broader palette for artistic and design endeavors, facilitating nuanced and sophisticated color combinations beyond primary and secondary options.

## Color Emotion

Excitement  
Passion

Nature  
Tranquility

Calm  
Trust

Happiness

Color psychology is the study of how colors impact human behavior, emotions, and perceptions. Different colors can evoke various emotional and psychological responses. For instance, blue is often associated with calmness and trust, while red can elicit excitement or passion. Yellow represents happiness and optimism, while green symbolizes nature and tranquility.

These associations can be influenced by cultural and personal factors. Understanding color psychology is crucial in fields like marketing, branding, and interior design, as it enables practitioners to harness the power of color to influence moods, preferences, and decision-making processes, creating specific emotional connections with audiences.

Luxury  
Creativity

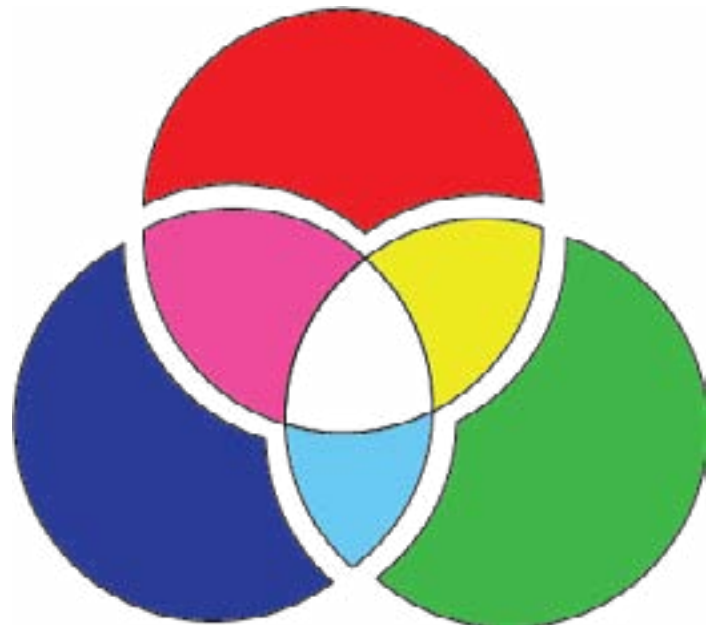
Warmth  
Enthusiasm

# RGB

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RGB (Red, Green, Blue) plays a significant role in color theory, particularly in the additive color model.

Additive Color Model: RGB is one of the primary color models used to explain the additive color mixing process. In this model, colors are created by adding various intensities of red, green, and blue light together. When fully saturated, mixing all three primary colors at maximum intensity results in white light. This model is commonly used in digital displays, such as computer monitors and television screens.



# CMYK

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CMYK stands for Cyan, Magenta, Yellow, and Key (black), and it is a color model used primarily in color printing and color reproduction processes. CMYK is a subtractive color model,

Subtractive Color Model: CMYK is based on the subtractive color model, which is used in color printing. In this model, colors are created by subtracting varying amounts of cyan, magenta, yellow, and black ink from a white or light-colored substrate (usually paper). The more ink you add, the darker the color appears.

